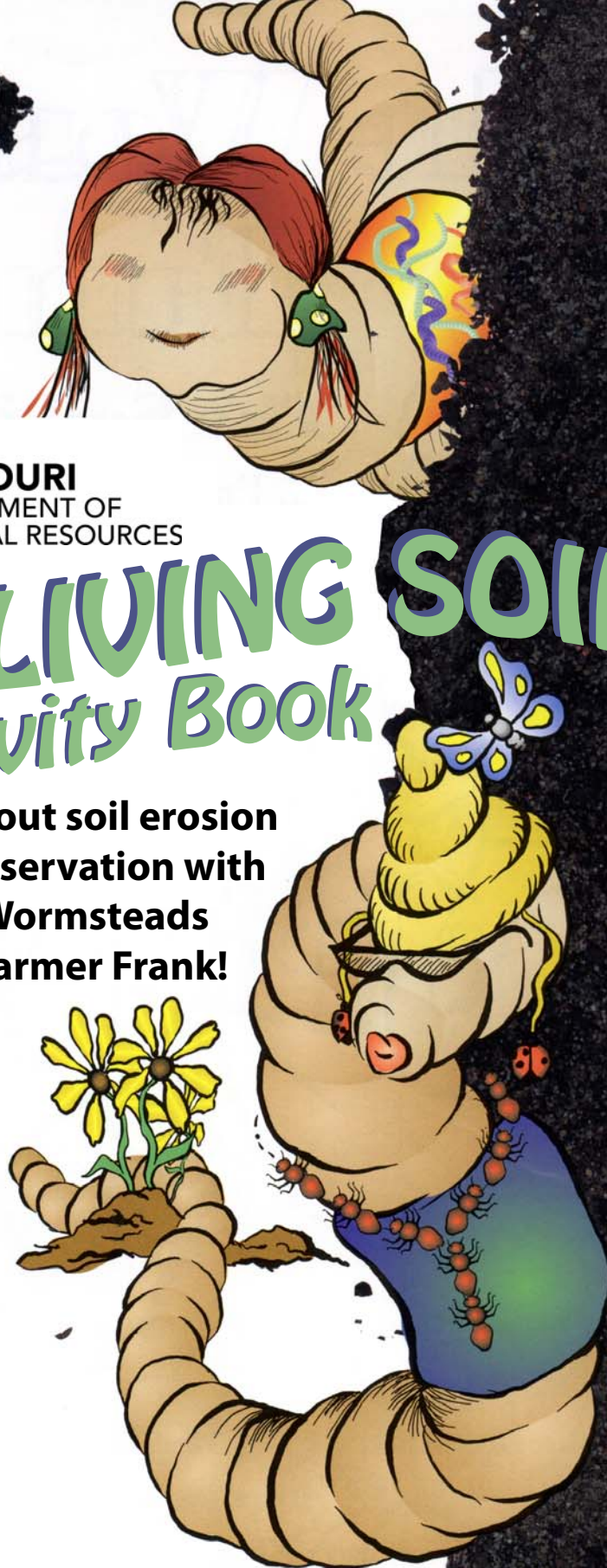
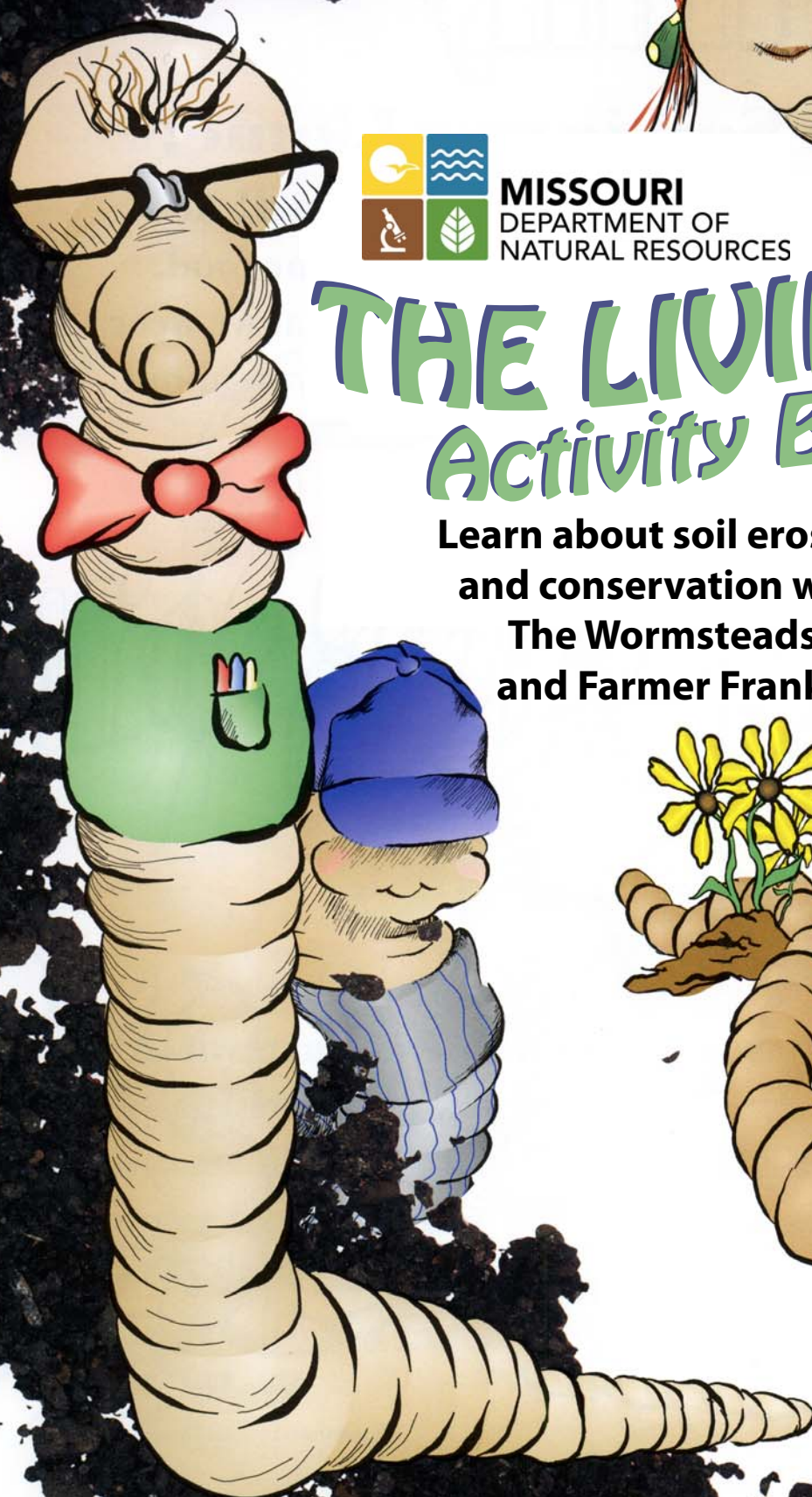




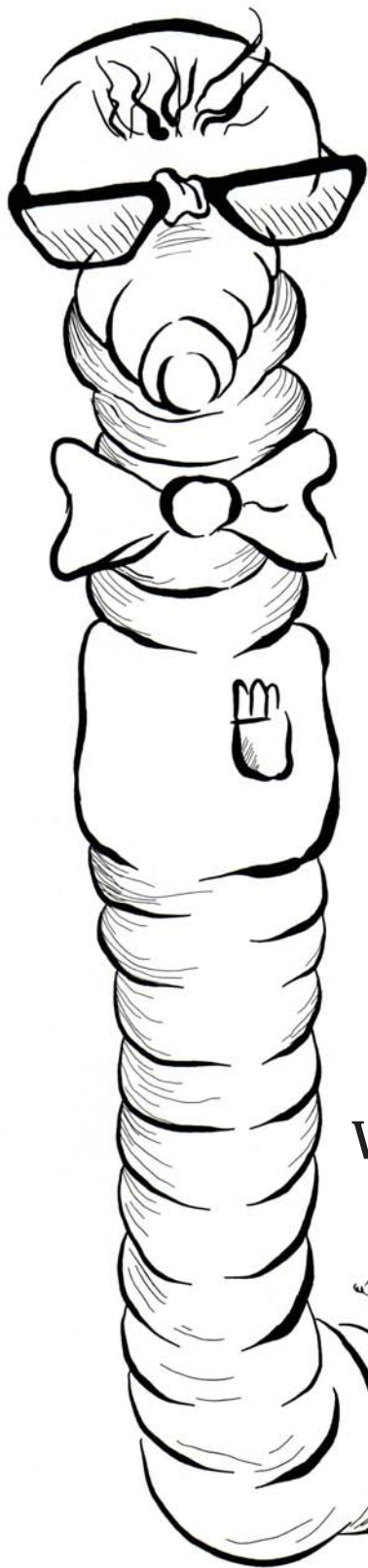
MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

THE LIVING SOIL Activity Book

Learn about soil erosion
and conservation with
The Wormsteads
and Farmer Frank!



THE WORMSTEAD FAMILY



The soil is our home!

Hi, I'm **Winston Wormstead**! All living things depend on the soil for food, so it's important we treat the soil right. Let us teach you about

THE LIVING SOIL!



Wanda



Wiggly

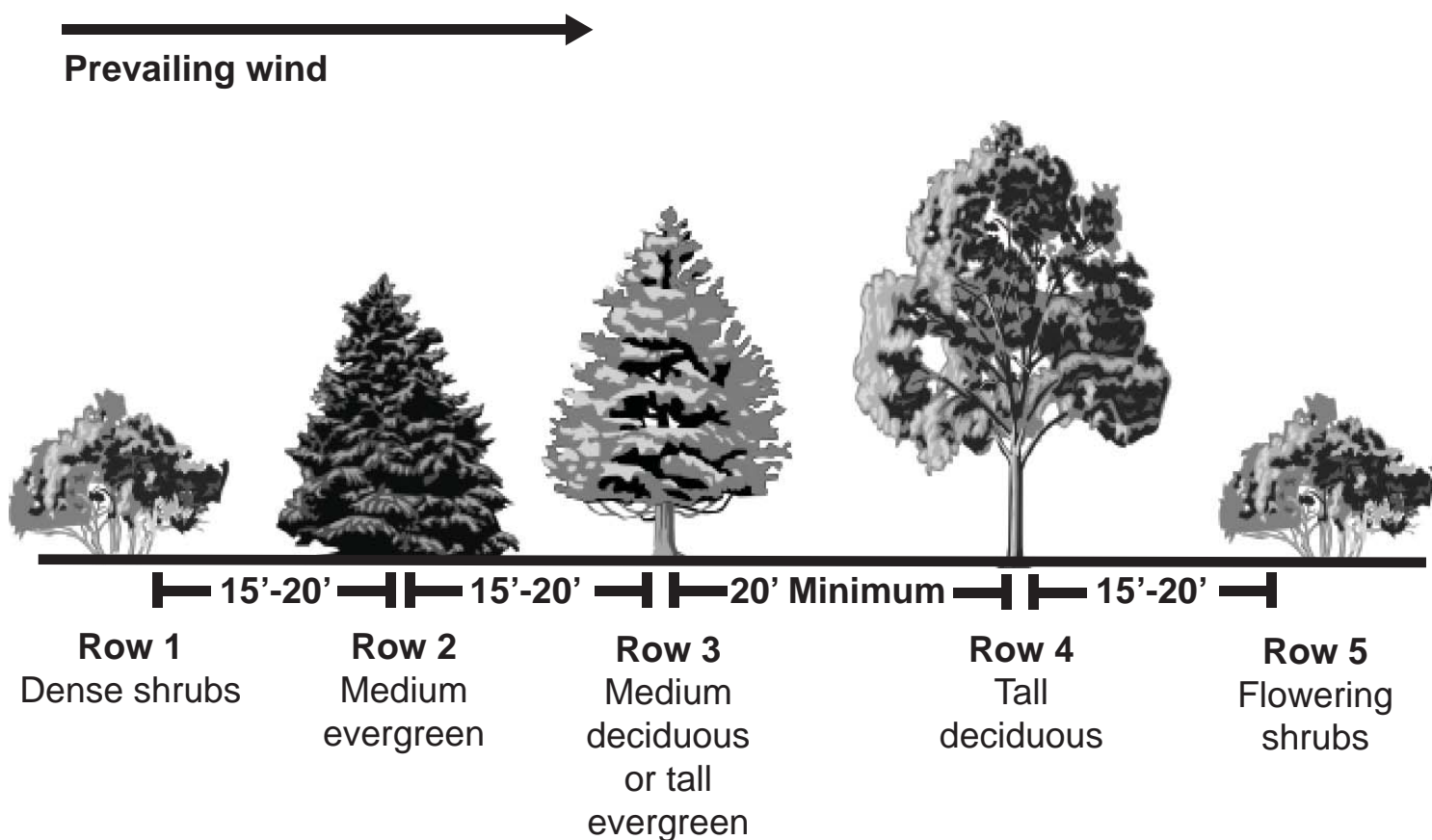


Wally

Hi, I'm

Farmer Frank

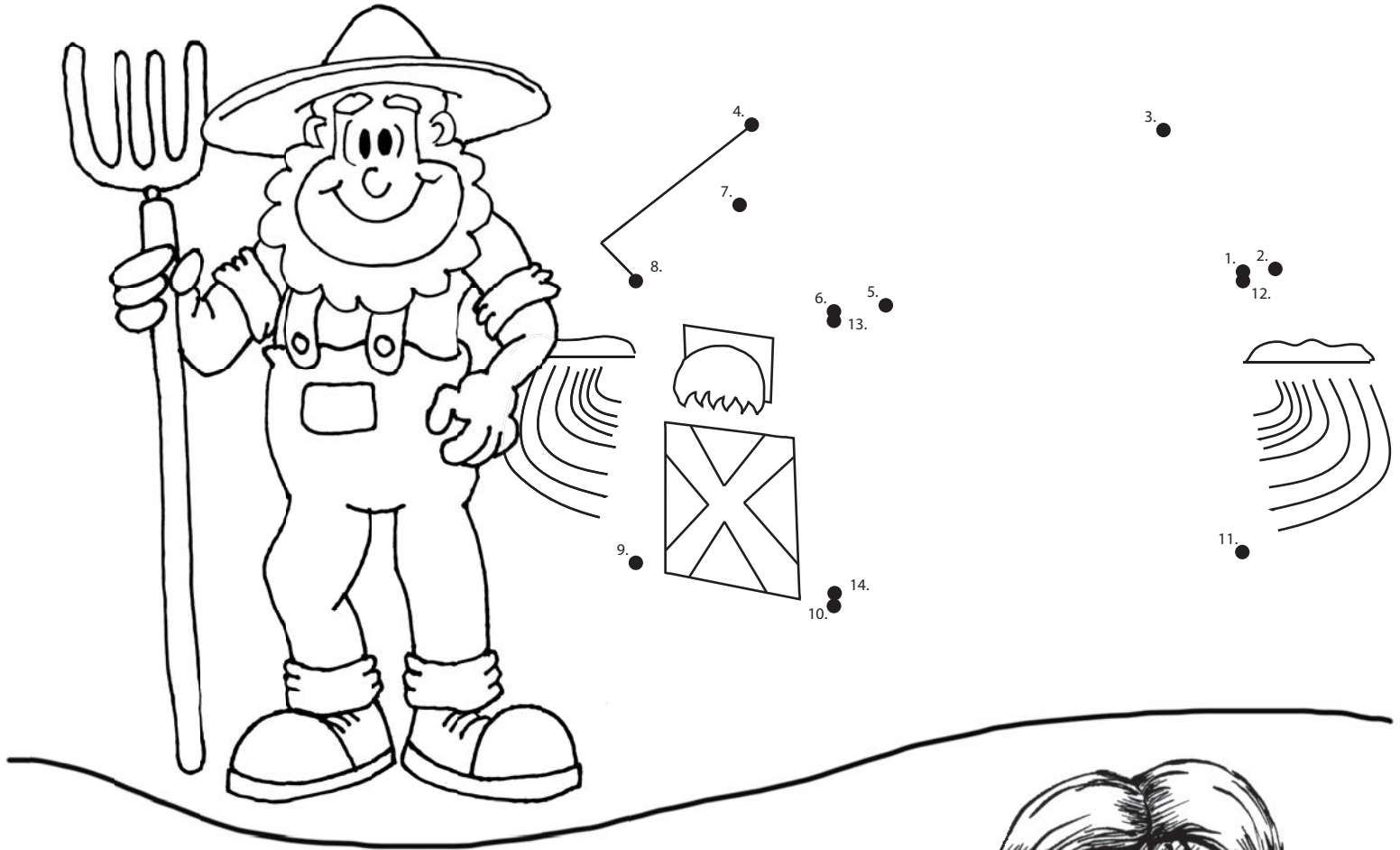
I try to do my part to keep the soil safe and healthy for the Wormsteads. By implementing soil conservation, I make sure the soil stays in its place so I can grow my crops.



I created a **windbreak** of bushes and trees that slow down the wind and prevent soil from blowing away.

Farmer Frank

Barn Connect the dots



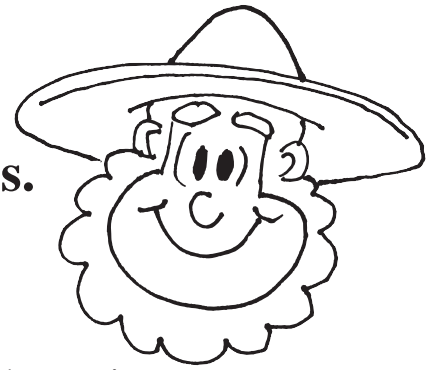
Hi, I'm

WIGGLY

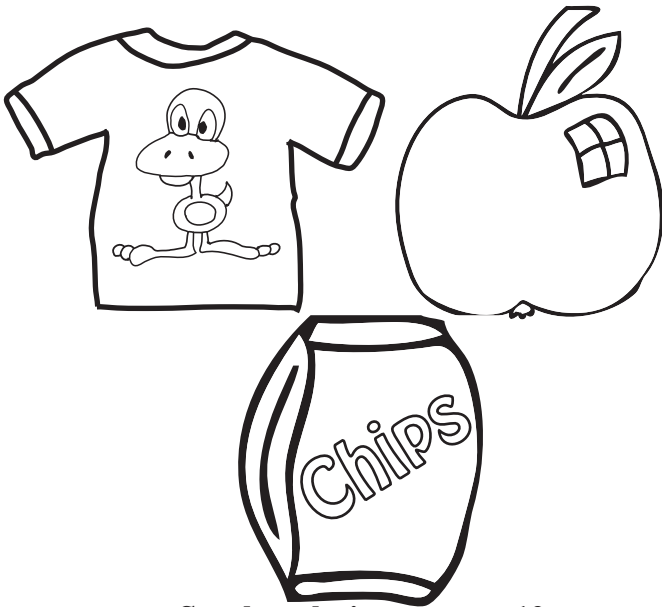
For my family and I, the soil is our **habitat**, our home. Above us lives Farmer Frank, who grows crops to feed the whole town. Soil is important to him and to us, so Farmer Frank uses **soil conservation** to reduce **erosion** and keep the soil healthy!



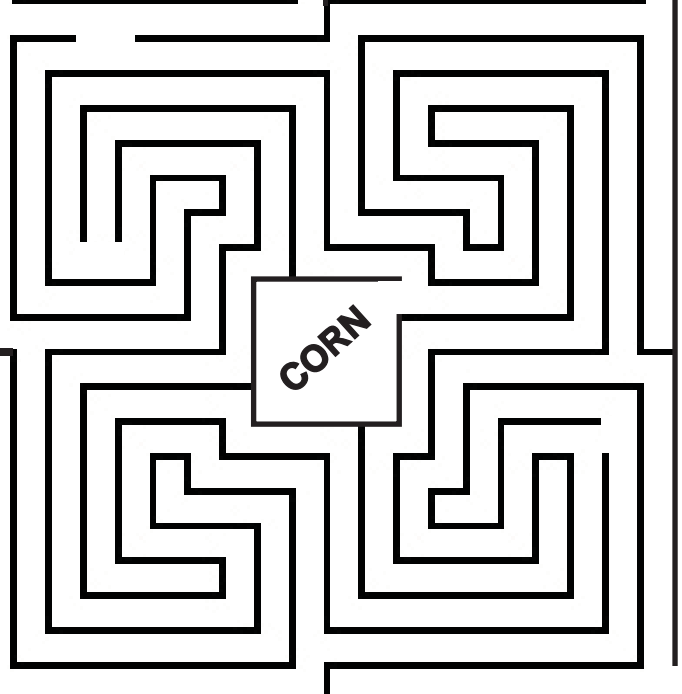
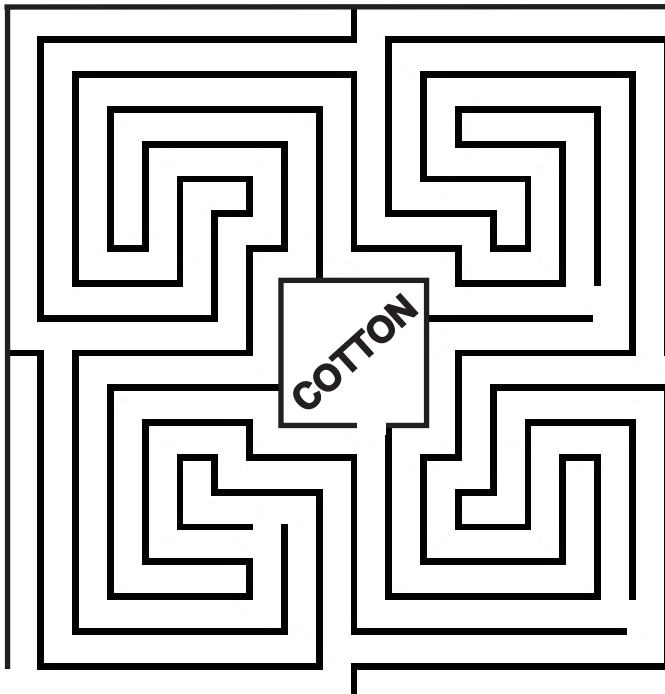
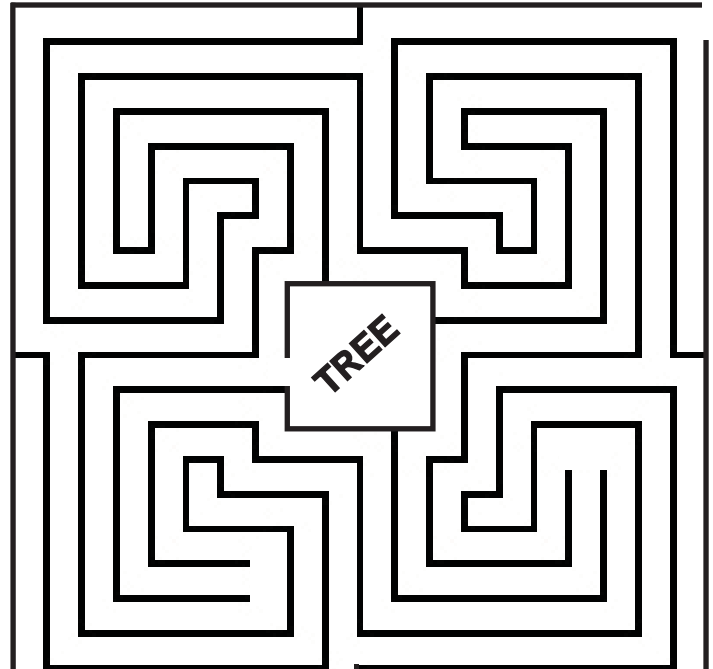
Soil is one of the most useful **natural resources**.
From the soil you get food, clothes and even
materials for the house you live in.



Draw a line to the soil source for the three items.



See the solution on page 12.



Soil Horizons

Fill in the blanks:

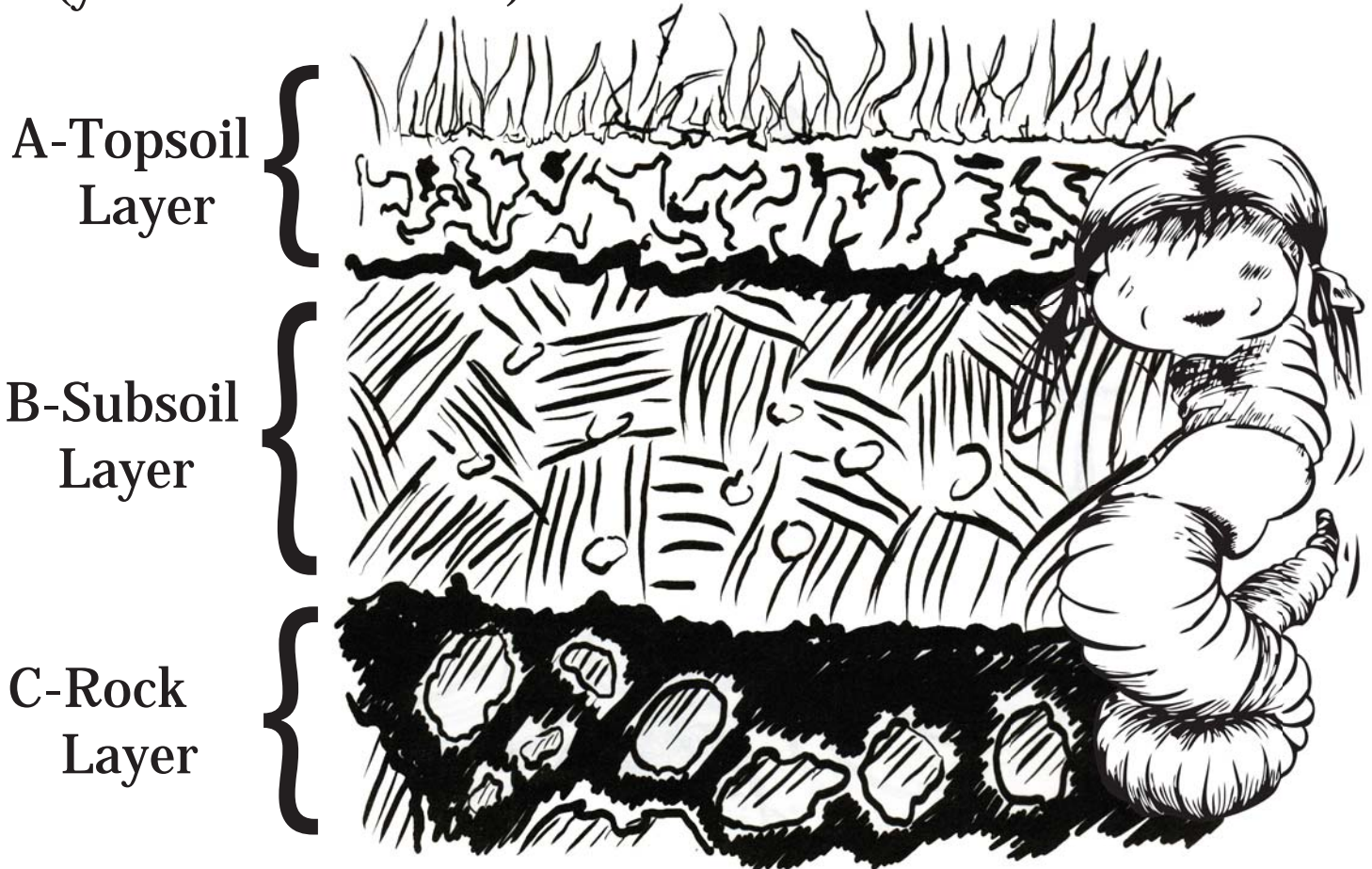
The soil is made up of 3 different layers, or horizons.

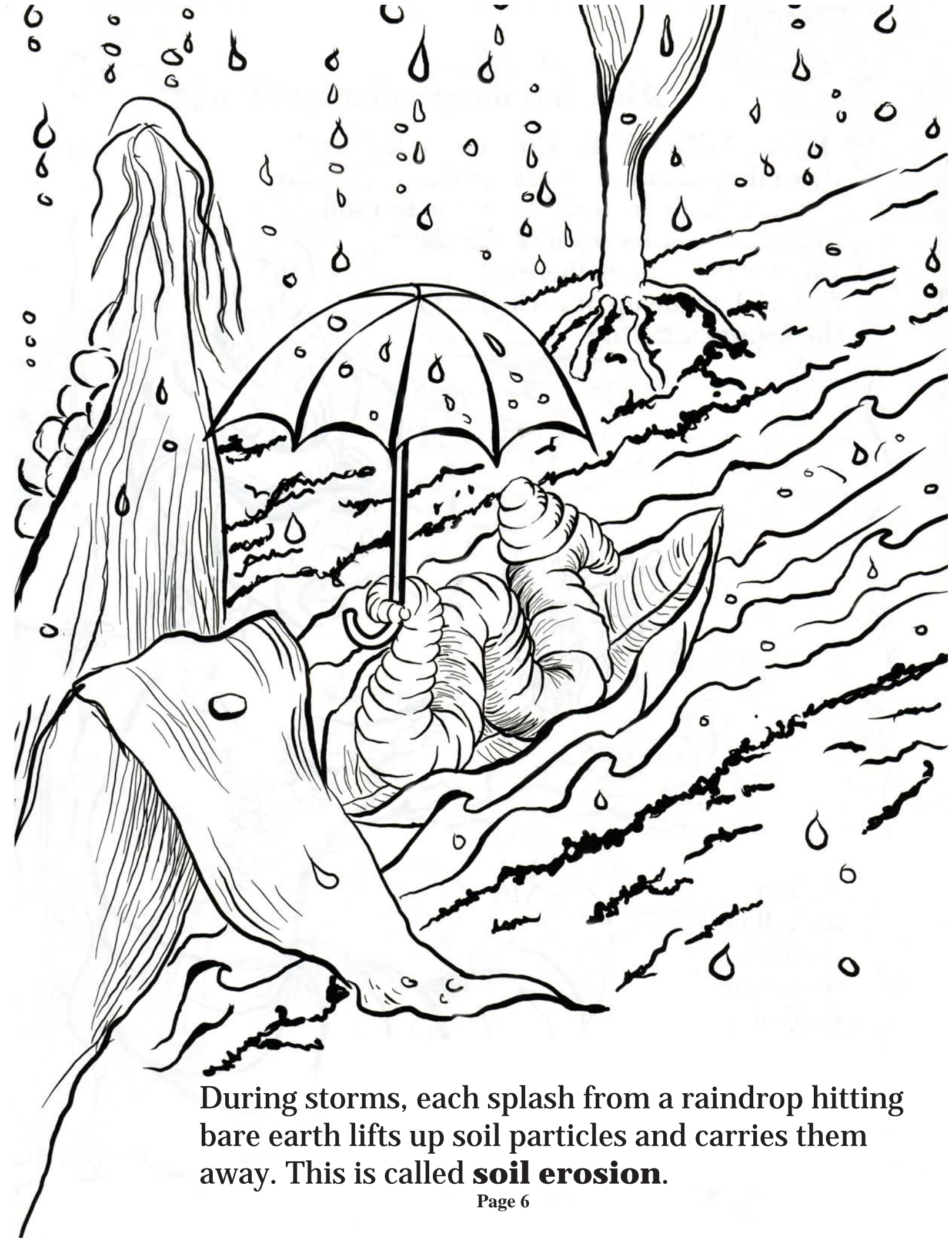
Farmer _____ grows _____ in
(your name)

the A-Layer, the topsoil. The _____ crops are
(adjective)

then sold in farmer's markets and grocery stores to

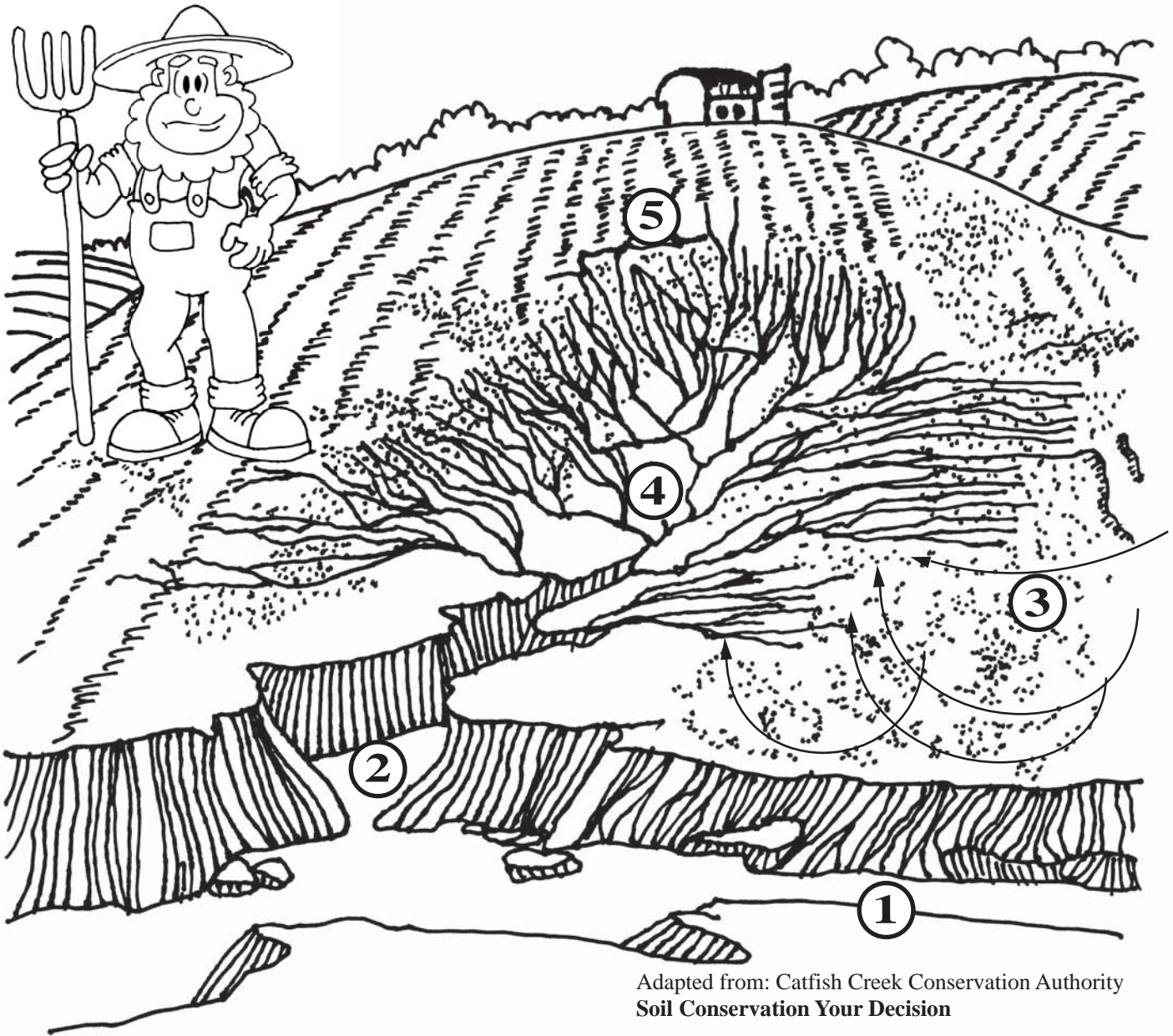
_____ who lives down the street.
(your friend's name)





During storms, each splash from a raindrop hitting bare earth lifts up soil particles and carries them away. This is called **soil erosion**.

Identifying Erosion



Soil erosion comes in different forms. Identify which area is:

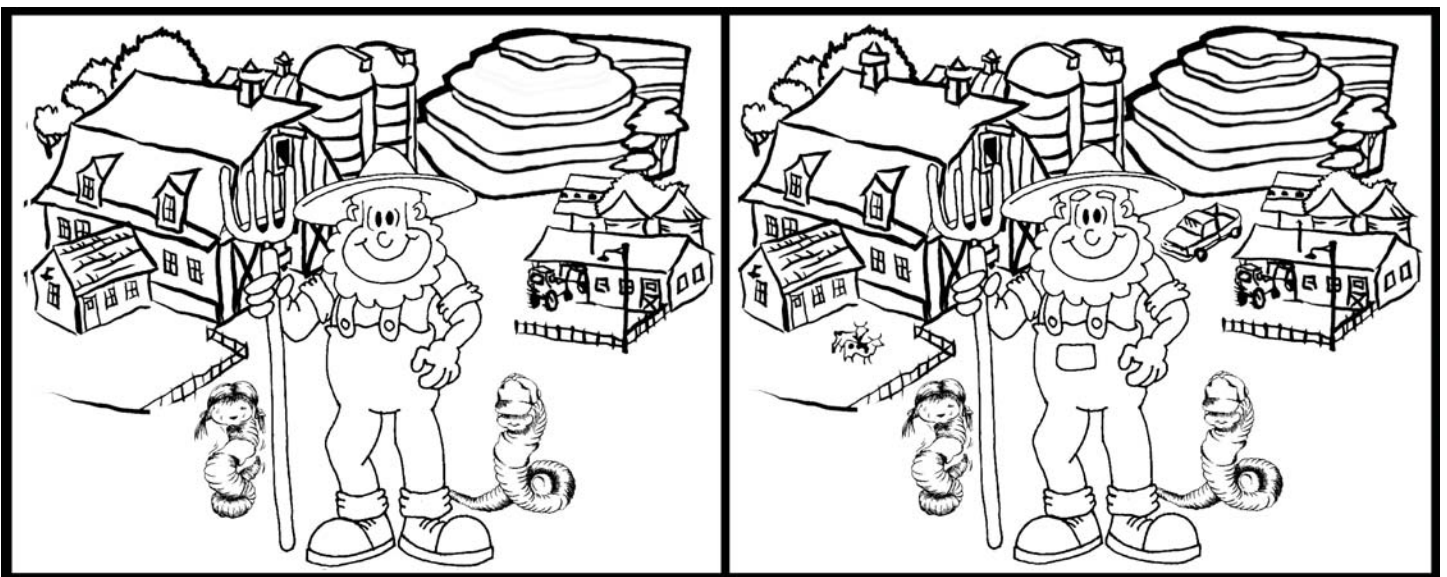
___ wind erosion ___ gully erosion ___ rill erosion
___ sheet erosion ___ streambank erosion

Missouri landowners voluntarily install soil and water conservation practices through the state cost-share program. These practices conserve soil, which improves water quality by reducing sedimentation in rivers and streams.

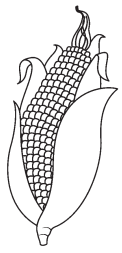


Farmer Frank creates **terraces** to reduce erosion. These are wide ridges that go around a hill and prevent water from rushing down the hill too fast.

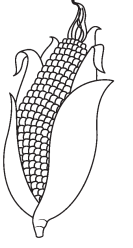
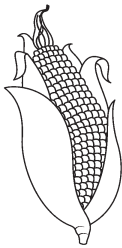
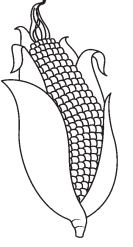
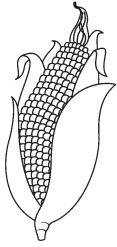
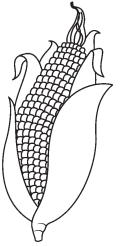
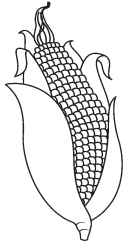
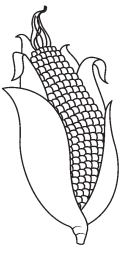
There are six items that are different in the two pictures of Frank's Farm. Can you find and circle the different items?



See the solution on page 12.



E W I L H E M E N A X I
B A S D A E T S M R O W
Z Z R Y C X C O R N U Z
S I L T L W K X A M R A
A C B P H D N R F E M T
C P L A N T S I T C P I
C O N S E R V A T I O N
F R Y L L A W I O R Q A
E A E G H T A S P N O U
W I R E U O F M S J F J
R N O V C P M F O O D G
O D S L L B F E I X O D
O R I G A G H B L Y N G
T O O U Y W I V Z A B F
S P N H D W I N S T O N
L K C O R D E B Z Y D E
C O N S T A N I M A L S



Wordsearch

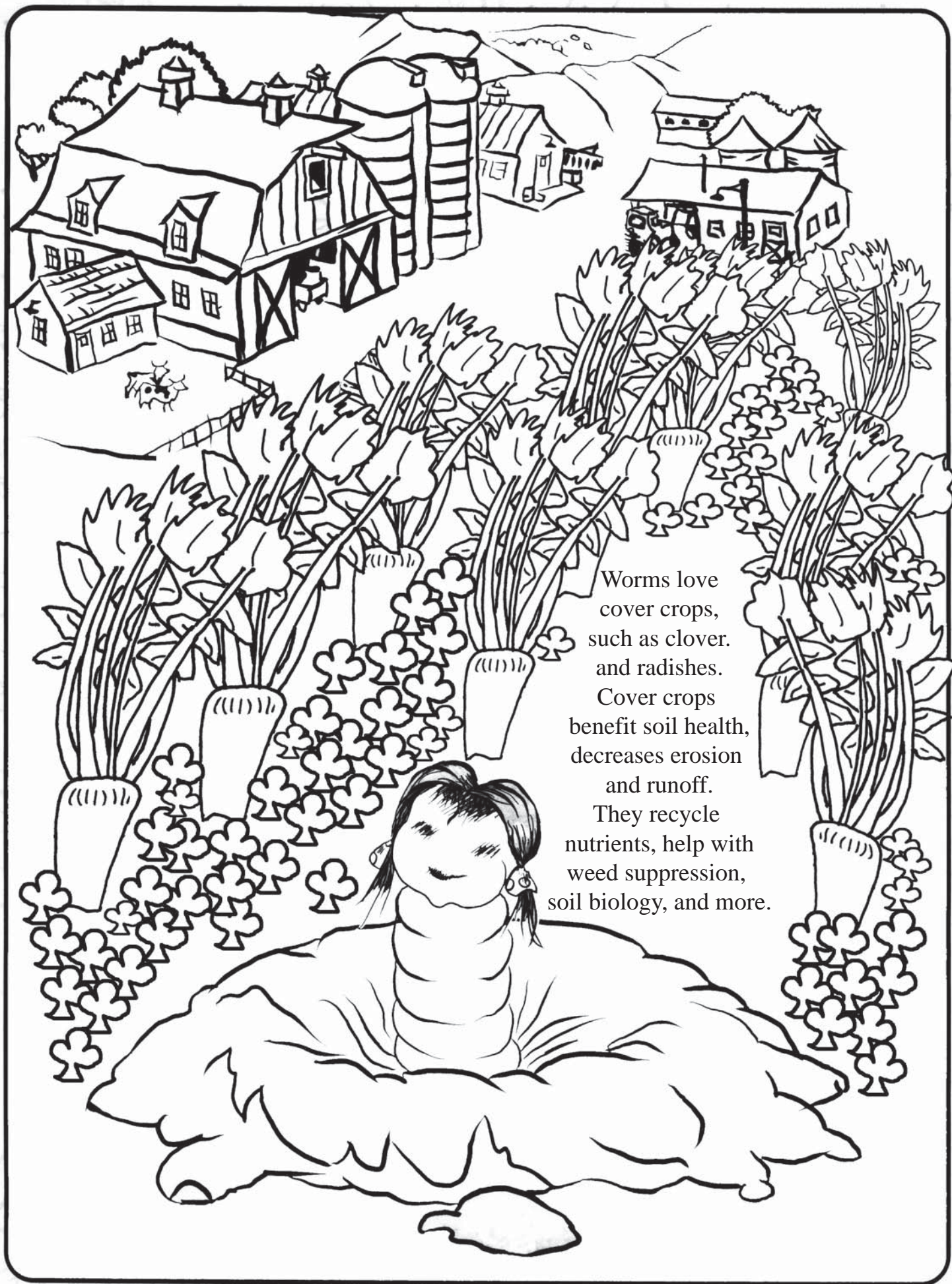
See the solution on page 12.

Air
Animals
Bedrock
Clay
Conservation

Corn
Earth
Erosion
Farm
Food

Home
Plants
Raindrop
Roots
Sand

Silt
Topsoil
Water
Winston
Wormsteads



Worms love
cover crops,
such as clover
and radishes.
Cover crops
benefit soil health,
decreases erosion
and runoff.
They recycle
nutrients, help with
weed suppression,
soil biology, and more.

A black and white line drawing of a farm scene. In the foreground, a large, friendly-looking bull with a wide, open-mouthed smile and small horns stands next to a smaller, equally happy chicken. The chicken is also smiling broadly. In the background, there is a simple barn with a gabled roof and a tall, narrow silo with two small rectangular openings. The entire scene is rendered in a clean, minimalist line-art style.



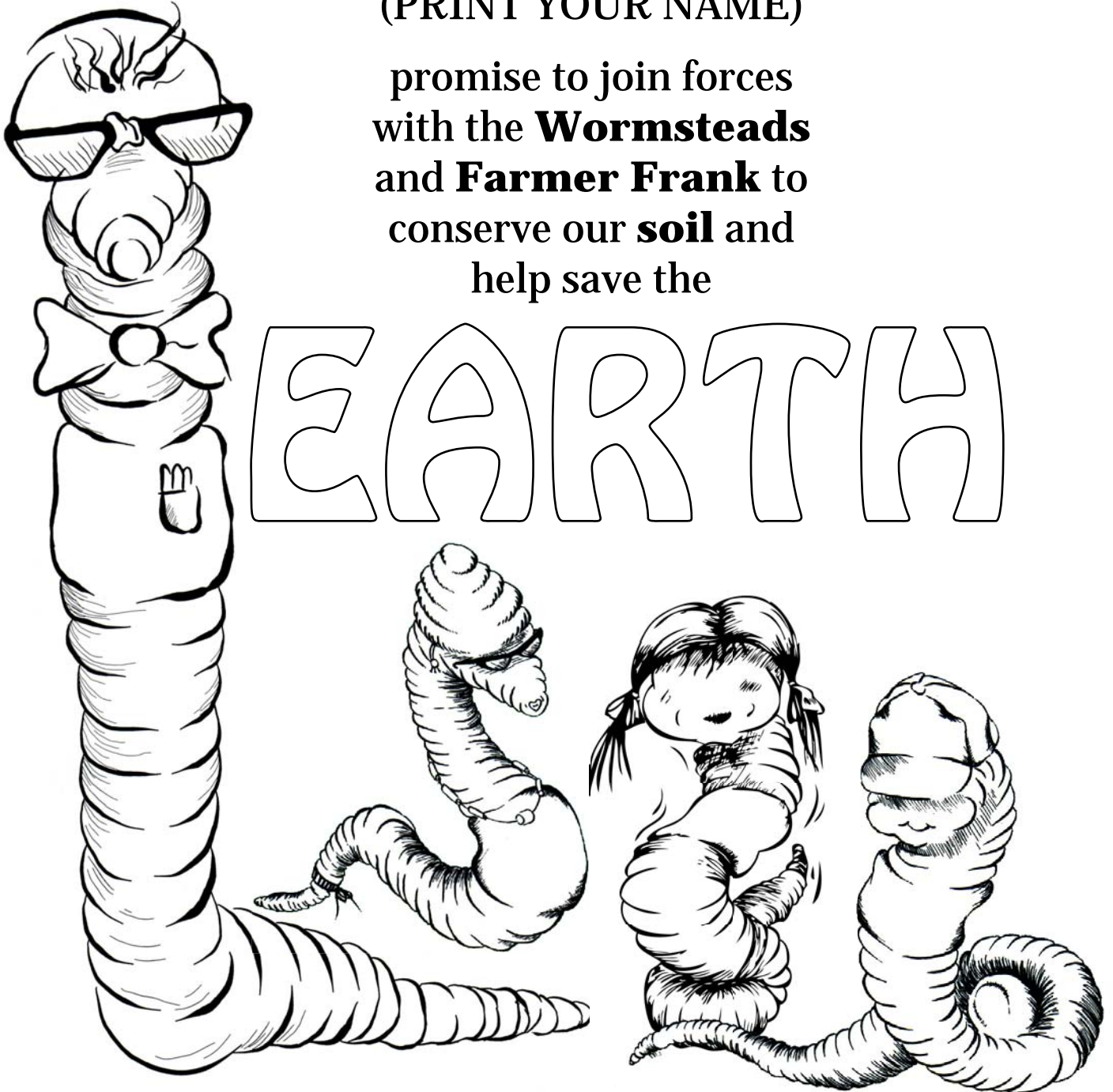
PROTECT THE SOIL!

I, _____

(PRINT YOUR NAME)

promise to join forces
with the **Wormsteads**
and **Farmer Frank** to
conserve our **soil** and
help save the

EARTH



The Wormstead Family

reminds you that by conserving our soil
you are helping to save the...



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Soil and Water Conservation Program

This educational material is provided by the Parks, Soils and Water Sales Tax.